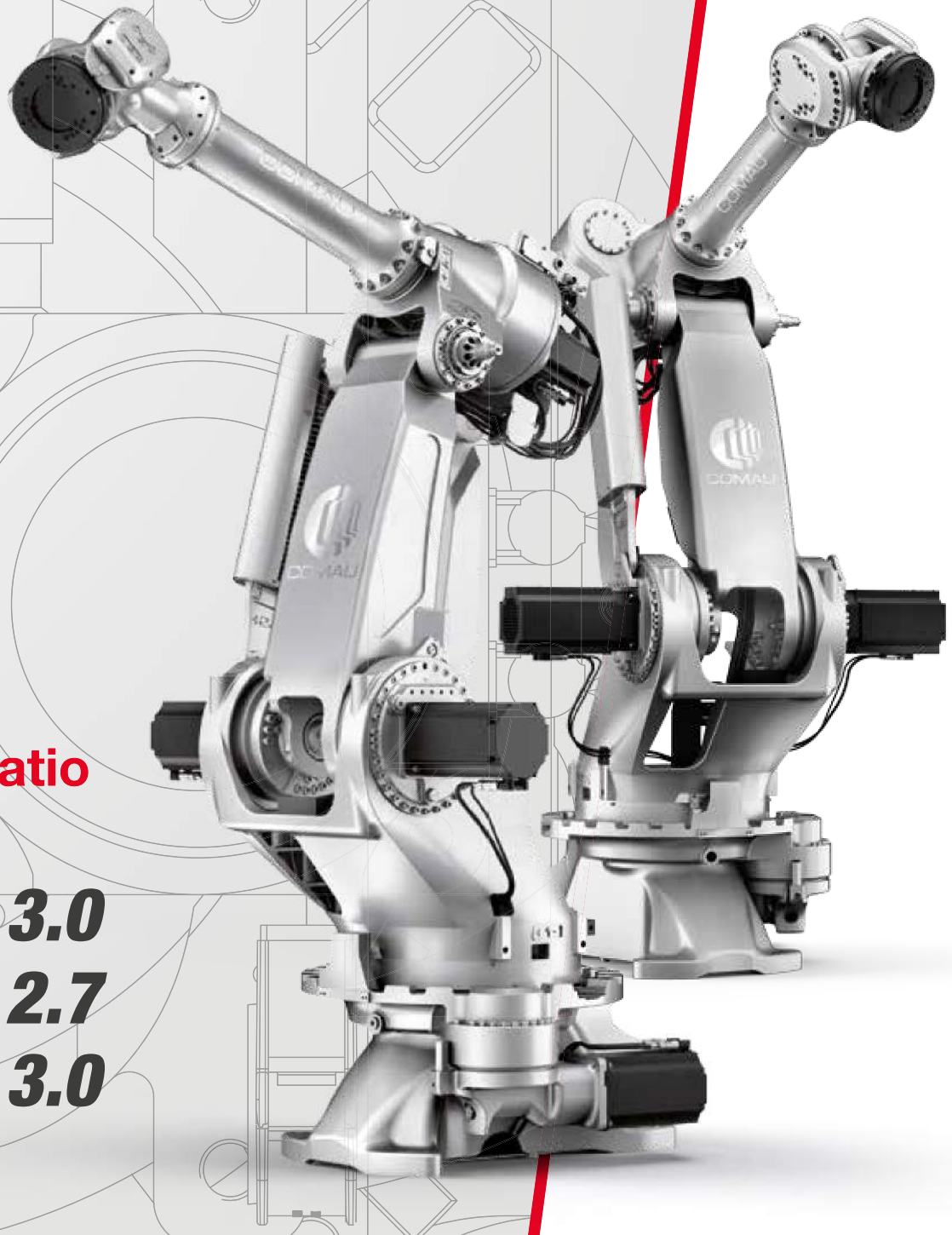
NJ

Robust mechanics and the best-in-class payload / reach ratio

NJ 110 - 3.0	NJ 165 - 3.0
NJ 130 - 2.0	NJ 220 - 2.7
NJ 130 - 2.6	NJ 290 - 3.0

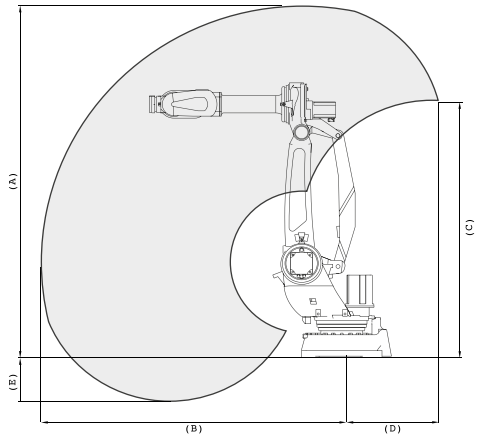


TECHNICAL SPECIFICATIONS

Model		NJ 110 - 3.0		NJ 130 - 2.0		NJ 130 - 2.6	
Number of axes		6		6		6	
Maximum wrist payload		110 kg		130 kg		130 kg	
Additional load on forearm		50 kg		50 kg		50 kg	
Maximum horizontal reach		2980 mm		2050 mm		2616 mm	
Torque on axis 4		638 Nm		638 Nm		638 Nm	
Torque on axis 5		638 Nm		638 Nm		638 Nm	
Torque on axis 6		314 Nm		314 Nm		314 Nm	
Stroke (Speed)	Axis 1	+/- 180°	(110°/s)	+/- 180°	(155°/s)	+/- 180°	(110°/s)
	Axis 2	+95° / -75°	(110°/s)	-60° / +125°	(105°/s)	-75° / +95°	(110°/s)
	Axis 3	-10° / -256°	(110°/s)	0° / -165°	(150°/s)	-10° / -256°	(110°/s)
	Axis 4	+/- 280°	(190°/s)	+/- 280°	(200°/s)	+/- 280°	(190°/s)
	Axis 5	+/- 120°	(190°/s)	+/- 120°	(190°/s)	+/- 120°	(190°/s)
	Axis 6	+/- 2700°	(230°/s)	+/- 2700°	(230°/s)	+/- 2700°	(230°/s)
Repeatability		0.07 mm		0.07 mm		0.07 mm	
Tool coupling flange		ISO 9409 - 1 - A 125		ISO 9409 - 1 - A 125		ISO 9409 - 1 - A 125	
Robot weight		1070 kg		740 kg		1050 kg	
Protection class		IP65 / IP67 Foundry Version		IP65 / IP67 Foundry Version		IP65 / IP67 Foundry Version	
Mounting position		Floor / Ceiling		Floor / Ceiling / Sloping		Floor / Ceiling	
Operating Areas	A	3460 mm		2200 mm		3097 mm	
	B	2980 mm		2050 mm		2616 mm	
	C	2642 mm		1690 mm		2261 mm	
	D	757 mm		720 mm		824 mm	
	E	783 mm		733 mm		404 mm	

Suggested applications

- Assembly
- Cosmetic Sealing
- Dispensing
- Handling / Packaging
- Laser Welding Cutting
- Machine Tending
- Measuring / Testing
- Plasma Cutting / Water Jet
- Polishing / Deburring
- Press Brake Bending
- Press to Press
- Process / Machining
- Spot Welding
- Wood / Glass Machining

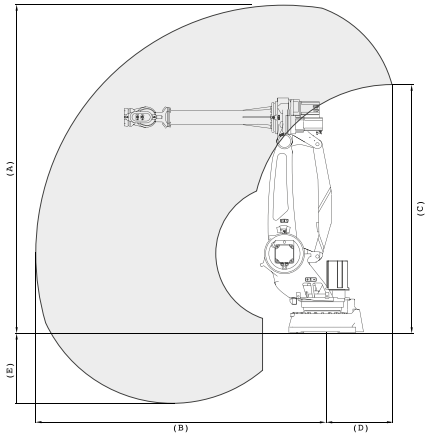


TECHNICAL SPECIFICATIONS

Model		NJ 165 - 3.0		NJ 220 - 2.7	
Number of axes		6		6	
Maximum wrist payload		165 kg		220 kg	
Additional load on forearm		50 kg		50 kg	
Maximum horizontal reach		3000 mm		2701 mm	
Torque on axis 4		1230 Nm		1230 Nm	
Torque on axis 5		1230 Nm		1230 Nm	
Torque on axis 6		712 Nm		712 Nm	
Stroke (Speed)	Axis 1	+/- 180°	(100°/s)	+/- 180°	(100°/s)
	Axis 2	-95° / +180°	(90°/s)	-95° / +75°	(90°/s)
	Axis 3	-10° / -256°	(110°/s)	-10° / -256°	(110°/s)
	Axis 4	+/- 2700°	(130°/s)	+/- 2700°	(130°/s)
	Axis 5	+/- 125°	(130°/s)	+/- 125°	(130°/s)
	Axis 6	+/- 2700°	(195°/s)	+/- 2700°	(195°/s)
Repeatability		0.09 mm		0.08 mm	
Tool coupling flange		ISO 9409 - 1 - A 160		ISO 9409 - 1 - A 160	
Robot weight		1240 kg		1220 kg	
Protection class		IP65 / IP67 Foundry Version		IP65 / IP67 Foundry Version	
Mounting position		Floor / Ceiling		Floor / Ceiling	
Operating Areas	A	3430 mm		3131 mm	
	B	3000 mm		2701 mm	
	C	2600 mm		2286 mm	
	D	730 mm		786 mm	
	E	738 mm		425 mm	

Suggested applications

- Assembly
- Cosmetic Sealing
- Dispensing
- Handling / Packaging
- Laser Welding Cutting
- Machine Tending
- Measuring / Testing
- Plasma Cutting / Water Jet
- Polishing / Deburring
- Press Brake Bending
- Press to Press
- Process Machining
- Spot Welding
- Wood / Glass Machining



Model		NJ 290 - 3.0	
Number of axes		6	
Maximum wrist payload		290 kg	
Additional load on forearm		50 kg	
Maximum horizontal reach		2997 mm	
Torque on axis 4		1668 Nm	
Torque on axis 5		1668 Nm	
Torque on axis 6		1177 Nm	
Stroke (Speed)	Axis 1	+/- 180°	(90°/s)
	Axis 2	+/- 75°	(90°/s)
	Axis 3	0° / -220°	(90°/s)
	Axis 4	+/- 2700°	(105°/s)
	Axis 5	+/- 125°	(105°/s)
	Axis 6	+/- 2700°	(160°/s)
Repeatability		0.15 mm	
Tool coupling flange		ISO 9409 - 1 - 200 - 6 - M12	
Robot weight		2150 kg	
Protection class		IP65 / IP67 Foundry Version	
Mounting position		Floor	
Operating Areas	A	3680 mm	
	B	2997 mm	
	C	3195 mm	
	D	433 mm	
	E	-118 mm	

Suggested applications

- Assembly
- Foundry
- Handling / Packaging
- Machine Tending
- Measuring / Testing
- Plasma Cutting / Water Jet
- Polishing / Deburring
- Press Brake Bending
- Process Machining
- Spot Welding
- Wood / Glass Machining

